EDITOR:
C. T. WEST, WD4HSI
1611 Craig Street
Raleigh, N. C.

CLUB REPEATER:
WR4ACF (146.04/64)

CLUB CALL:
W4DW

"RALEIGH AMATEUR RADIO SOCIETY NEWS"

DECEMBER 1979: JANUARY-FEBRUARY 1980 ISSUE 120

Directions for WAS

If you are interested in trying your hand at worked-all-states, and you have a rotatable antenna of some sort, this may be of some help to you. It is a list of beam headings for state capitals and some other cities that may be use-ful in your hunting. A word of advice to the wise: if you even remote ly are thinking about 5BWAS, do it NOW! The sunspots should smile on ten and fifteen meters for only another couple of years, so get busy now and work 'em all on these bands first. Check in to the RARS 10 m net at 7 PM MTThF on 28.54 MHz if you need advice or help. These guys know the ropes! and now, here is the list. (by the way, zero degrees is due north, 90 degrees is due east, etc.)

CITY	Heading in deg.
Albany, NY	27
Amarillo, TX	275
Anchorage, AK	324
Atlanta, GA	248
Augusta, ME	36
Austin, TX	256
Baltimore, MD	24
Baton rouge, LA	247
Bismarck, ND	311
Boise, ID	297
Boston, MA	39
Carson City, NV	289
Charleston, WV	318
Charlottetown, PEI,Canada	43
Chesterfield Inlet,NWT,Can.	349
Cheyenne, WY	293
Columbia, MO	290
Columbus, OH	322
Columbia, SC	229
Concord, NH	34
Denver, CO	289
Des Moines, IA	301
Edmonton,Alta.,Canada	317
El paso, TX	268
Fredericton,NB,Canada	38
Halifax,NS,Canada	48
Harrisburg,PA	17
Hartford, CT	36
Helena, MT	304

Honolulu, HI	282
Indianapolis, IN	306
Jackson, MS	253
Juneau, AK	320
Lansing, MI	328
Las Vegas, NV	282
Lexington, KY	298
Lincoln, NE	295
Little Rock, AR	269
Los Angeles, CA	279
Madison, WI	315
Montgomery, AL	244
Montpelier, VT	27
Montreal,Que.,Canada	20
Nashville, TN	276
Oklahoma City, OK	274
Orlando, FL	199
Phoenix, AZ	275
Pierre, SD	304
Providence, RI	41
Regina,Sask.,Canada	316
Richmond, VA	28
Sacramento, CA	288
St. Johns,Newf.,Canada	50
St. Paul, MN	314
Salem, OR	299
Salt Lake City, UT	291
Santa Fe, NM	278
Sault Ste. Marie,Ont.,Can.	340
Seattle, WA	304
Springfield, IL	298
Tallahassee, FL	223
Topeka,KS	289
Trenton, NJ	33
Vancouver,BC,Canada	307
Whitehorse, Yukon,Canada	323
Wilmington, DE	31
winnipeg,Man.,Canada	322
Yellowknife,NWT,Canada	332
...and a couple more.....	
Goose Bay,Lab.,Canada	29
Frobisher Bay,NWT,Canada	10

GOOD LUCK!! Paul,WB4YBF

FOR SALE:HW-101, HP-23B, HS-1661, mobile mike, cantenna, Drake MN-4 antenna matcher, dust covers, manuals, Kenwood TR-2200A two meter portable. Joey Powell, WB4HXM, 851-6895 evenings.

WANTED TO BUY: Two meter synthesized rig and five-band base station. Reasonable. Ken Dickson, 556-1913.

MINUTES OF THE MEETING

January 2, 1980

The first meeting of 1980 was held in the West Community Room at Crabtree Valley Mall at 7:30 pm on Jan. 2, 1980. The meeting was called to order by new President, Grover (Doc) Cobb, W4YZX. Members and guests were welcomed. The attendance roster was signed by seventy members and guests. Officers for the coming year were presented to the club:

President------Doc Cobb, W4YZX

V. President---Ron Oates, AA4VK

Secretary------Ann Bradley, WA4APK

Treasurer------Bill Feehan, WB4EOV

Newsletter Ed--C. T. West, WD4HSI

Training Dir---B. Johnson, AA4L

FM Committee---G. Richards, WA4EKJ

Comm. Manager--C. Littlewood, K4HF

Hamfest Co-chairmen--Jack Kenny, WB4MCU
Rollin Ransom, N4AWR

President Cobb made the following announcements:

-As a result of WARC '79 which was completed Dec. 4, these are the official allocations.

160 M--Some changes - LORAN being phased out on this freq.

80 M---3.5-3.75 Mhz - Worldwide Amateur exclusive.
3.75-3.9 Mhz - Broadcast sharing in Reg I & II.
3.95-4.0 Mhz - Canada, Greenland & Artic broadcast use.

40 M---7.0-7.1 Mhz - Amateur exclusive worldwide.
7.1-7.3 Mhz - Reg. II only.

20 M---Unchanged.

15 M---Unchanged.

10M---Unchanged.

New Bands

30 M---10.1-10.15 Mhz - Worldwide

17 M---18.068-18.168 Mhz - Amateur exclusive "eventually".

12M---24.890-24.990 Mhz - Amateur exclusive "eventually"

NOTE: 902-928 Mhz - were allocated to Amateurs on a shared basis.

-AARL Bulletin #1, dated Jan. 2, 1980 serves as a reminder that a revised numbered radiogram list is available and the old list is now obsolete.

-The following Hamfest dates are to be noted.

Richmond Va. Frostfest	Jan. 15 FCC tests will be given. 610s must be in by Jan. 9.
Elkin, N.C.	Feb. 24
Charlotte, N.C.	March 22-23
Columbia, S. C.	April 12
Charleston, S.C. Antique Wireless Association	April 18-19
and of course--	
Raleigh, N.C.	April 20

Rollin Ransom, N4AWR, gave a report on the RARS Christmas party, co-hosted by the Ransoms and the Bradleys and held at the Ransom residence on Dec. 15. Forty-four guests attended and "a lovely time was had by all."

Rollin also reported on Hamfest progress. Flyers are being printed. The ad has been sent to the CVRA Journal. Other ads will be sent as soon as the flyers are available. Most committee chairmen have been selected, but volunteers are needed in every area.

Bob Johnson, AA4L, reported that upgrade classes will start on Jan. 14, at 7:00 pm in the McKimmon Center and will run for twelve weeks.

President Cobb asked for approval to allocate funds to Crabtree Mall for $290 rental fee for the Hamfest--$125 of which is a refundable deposit, and for $69 yearly rental fee for our meeting room. Both motions were made, seconded, and approved by the membership.

RARS membership fees are now due ($10.00 for full membership---$2.00 for associate membership). All members whose dues are paid by the end of the February meeting will be eligible for a special prize drawing. In the absense of the Treasurer, dues were accepted by the Secretary. Cards will be

issued at the February meeting.

Jim Peeler, WA4YOM, retiring secretary of RARS for 1978 and 1979, was presented a handsome brass and wood plaque by Bob Corns, K4MC. Bob commended Jim for his devoted service to the club in many areas during the past years, and expressed the appreciation of the entire membership. C. T. West, Wd4HSI, thanked Jim for the "Press-ready" condition and the promptness with which he had always received the minutes for the newsletter. (This secretary has a great deal to live up to).

An excellent film and slide program about Oscar 8 was presented by Ron Oates, AA4VK, and a very informative talk by Sherman Starnes, W4TZU, explained the tracking of the Oscar satellites, orbital data, and the telemetry from Oscar 8.

Door prizes were drawn with Wilbur Goss, WD4RDT, winning the opportunity to write an article for the newsletter, and Mike Matzinger, N4AYJ, winning the doorprize, a 1979 Callbook. The meeting was adjourned following coffee, doughnuts, and fellowship.

Ann Bradley, WA4APK
Secretary, RARS

MINUTES OF THE MEETING - December 5, 1979

The regular monthly meeting of the Raleigh Amateur Radio Society was held in the West Community Room at Crabtree Valley Mall at 7:30 p.m. on December 5, 1979. The meeting was called to order by President Chuck Littlewood, K4HF. Members and guests were welcomed. The attendance roster was signed by seventy persons.

Rollin Ransom, N4AWR, made the following announcements:

Notification has been received from the FCC that as a result of their new policy with respect to offering amateur examinations, they will not be able to provide examinations at the RARS Hamfest this spring. Under the new policy, examinations are to be given only at FCC district and field offices.

The RARS Christmas Party will be held at the QTH of N4AWR with Ann, WA4APK, and Jim, WA4AOO, serving as co-host with

Rollin and his wife, Vena. The party is set for 7:00 p.m., Saturday, December 15 at 5017 Devonwood Court.

Lynn Pendleton, K4NYV, reported a transmitter hunt was held on a rainy Sunday afternoon several weeks ago. Four teams braved the weather, and the winning team was comprised of WA4AKB, WB4TQD, AA4OO, and WA4MBK. Congratulations. We will do it again.

Bob Johnson, AA4L, announced that novice and general classes will start in early January. Call the Division of Continuing Education, N. C. State University (737-2265) for information on registration and starting dates.

Jesse Hodges, W4JG, has been elected as a director of the recently formed Coastal Plains QCWA Chapter. Congratulations, Jesse.

RARS dues for 1980 are now payable. A drawing will be held at the March meeting for a nice prize. Those who have paid their dues prior to the drawing will be eligible for the drawing.

Bob Corns, K4MC, installed the following new officers and directors for 1980:

President.....Grover(Doc) Cobb, W4YZX
Secretary.....Ann Bradley, WA4APK
Editor, Newsletter.....C. T. West, WD4HSI
Training Director.....Bob Johnson, AA4L
FM Committee..... George Richards, WA4EKJ
Hamfest, Co-Chairmen.....Jack Kenny, WB4MCU
Rollin Ransom, N4AWR
RARS Communications..... Chuck Littlewood, K4HF

Terms of service for officers are two years with directors elected for one year. All terms begin January 1, 1980.

Bob Corns, K4MC, gave a presentation on the National Traffic System and message handling. Bert Bailey, W4FMN, followed with a presentation on message writing and the Crabtree Valley Christmas Message Center project. The message center will operate from December 17 through December 22, 1979. Operation hours will be from 7:30 to 9:30 p.m. Monday through Friday and 1:00 to 6:00 p.m. Saturday. Operators were scheduled to run the center.

Winners for the door prizes were drawn with Ralph Rigdon, WB4SDU, winning the privilege of writing an article for the Newsletter and Bob Corns, K4MC, receiving a DX Call Book.

The meeting was adjourned following coffee, doughnuts, and fellowship.

Jim Peeler, WA4YOM
Secretary, RARS

MINUTES OF THE MEETING - November 7, 1979

The regular monthly meeting of the Raleigh Amateur Radio Society was held in the West Community Room at Crabtree Valley Mall at 7:30 p.m. on November 7, 1979. The meeting was called to order by President Chuck Littlewood, K4HF. Members and guests were welcomed. The attendance roster was signed by seventy-eight persons.

President Littlewood called for a moment of silence for Mr. Ross Reynolds, W4BRT, an honorary life member of RARS and now a silent key.

The following officers and directors were elected. The term of service for officers is two years and one year for directors. All terms begin January 1, 1980.

President.....Grover (Doc) Cobb, W4YZX
Secretary.....Ann Bradley, WA4APK
Editor, Newsletter.....C. T. West, WD4HSI
Training Director.....Bob Johnson, AA4L
FM Committee..... George Richards, WA4EKJ
Hamfest Co-Chairman ..... Jack Kenny, WB4MCU
Rollin Ransom, N4AWR
RARS Communications..... Chuck Littlewood, K4HF

President Littlewood made the following announcements:

The Crabtree Christmas Message Center will operate this year from December 17 through December 22, 1979. Operation hours will be 7:30 p.m. - 10:00 p.m. Monday through Friday and 1:00 p.m. - 6:00 p.m. Saturday. Operators will be needed. Please put this on your calendar. Sign-up at the December meeting.

Novice and general classes will start in early January. Call the Division of Continuing Education, N. C. State University (737-2265)

for information on starting dates and registration.

Lynn Pendleton, K4NYV, announced that there would be a transmitter hunt on Saturday, November 11, 1979. Those interested in participating should meet at Crabtree Valley Mall, upper rear parking deck, at 2:00 p.m. Cash prizes to be awarded.

The remainder of the meeting was devoted to the annual auction. Bob Johnson, AA4L, was the auctioneer, and all had fun bidding, drinking coffee, and eating doughnuts.

The meeting was adjourned following the auction.

Jim Peeler, WA4YOM
Secretary, RARS

Greetings from the Fayetteville/Fort Bragg, NC

"RED CARPET REPEATER"

operating on 147.93/33 MHz. We cordially extend a personal invitation for you to use the repeater as often as you like. It is programmed to operate 24 hours daily and has emergency back-up electrical power. The repeater should give good coverage in most parts of Cumberland and surrounding counties. There are no dues or special obligations required for the use of this repeater.

It is provided to serve all Radio Amateurs and render a public service to the great community in which we live. We sincerely hope that you will enjoy this "Red Carpet Repeater" for many years. Come join your friends and neighboring hams in good fellowship, fun and service. Handle Traffic, Rag Chew, Have A Barrel of Fun or just say "Howdy Neighbor". It is here for all to enjoy.

We are eternally grateful to N4AGB (America's Greatest Broadcaster), WA4PSG (Proud Southern Gentleman) and N4AIO (Amateur Intelligent Operator) for their patience, tireless effort and expertise in preparing this equipment for the enjoyment of the multitude. Also to W4EHF for offering this frequency.

OPERATING FREQUENCY: 147.93/33 MHz
TYPE REPEATER: Amateur Radio 2 Meter Narrow Band FM
MANUFACTURER: Motorola (Research Line)
RECEIVER: Sensicon, by Motorola; Pre-amp by Vanguard; Crystal Filter by Piezo Electric.
TRANSMITTER: Motorola. Power output of RF final amplifier can be adjusted from 10 to 90 watts. Tube used 5894.
POWER SUPPLIES: By Motorola, plus Amateur Built Solid State 5 and 12 volts D.C.
C.W. IDENTIFIER & TIMER: By VHF Engineering.
CABINET: Metal, 22 wide x 18 deep by 5'5" high. Special weather tight type. Can be mounted out-of-doors if desired.
ANTENNAS: (RECEIVE) "Hustler" Collinear 6 DBd, Base Repeater type. 199'6" above ground. (TRANSMIT)(4) J-poles 6 DBd commercial version by "Hy-Gain", 174'3" above ground. (The two antennas are stacked vertically 15 feet apart.)

RARS NEWS BEGINNING FORMAT TRANSITION

Beginning with this issue, RARS News is making a transition to a new format.

This issue contains some of the old and some of the new format. As you look through the news letter you will see differences.

This column is the new style. Its maximum width is three inches. This column was photographed and printed exactly as it came from the typewriter.

Previously, column width was three and three-quarters inches at the maximum width. After the page was pasted up, the printer photographed it using a 25 percent reduction. That meant the column you read in the news letter was one fourth smaller than the one the editor took to the printer.

Behind all this madness is the editor's vision of a change in the concept of the news letter. The goal is to evolve from what you have in your hands now into a magazine-type publication.

The magazine approach has been in mind for some time. Now is a good time to start changing.

All of which means we'll need more material each month and more people we can depend on to provide it.

The sky's the limit. But it won't happen without your help.

MISSED NEWS LETTER?

MEMBERS PREPARED

LITTLE COPY

Did you miss the RARS News lately? So did the editor.

Look closely at this issue. With the exception of a dated Christmas article, what you see is the extent of member participation during the months of November, December and January.

The editor is most grateful for the conscientious work of the club secretary. The minutes were always timely. Many thanks to outgoing secretary Jim Peeler and new secretary Ann Bradley.

Let's look to them as good examples to follow as each of us does his share in getting the news letter out.

There is no shortage of talent in Raleigh Amateur Radio Society. Many members are extremely busy people.

However, if each member would write at least one article for us during the year, we would have an interesting and readable issue each month.

FOR SALE

YAESU FT-101B with CW filter, mobile & desk mics., fan, external audio filter, mobile mounting bracket, and extra finals: $550

N4EX Rich Homolya 847-3192 after 5

RARS NEWS NEEDS NEWS

The year-end holidays took a lot of energy from RARS members. Many were just too exhausted to put words on paper.

However, spring is on the way, and major holidays are behind us for a while. The editor looks forward to receiving heavier input from interesting and prolific writers among you.

News letters don't appear magically. A lot of work and thought goes into each issue. Each member should do his share of the writing.

You don't have to technically oriented to produce a good article for the news letter. Some of the best stories written by members were not of a technical nature. They were personal and humorous stories.

Tell us about something that happened to you while hamming. Tell the story as if you were chewing the rag with someone out yonder.

You as a club member are helping pay for this news letter, so you may as well get in you money's worth.

RARS NEWS WRITERS,

REMEMBER:

COLUMNS NOT MORE THAN

THREE INCHES WIDE

MAXIMUM,

SINGLE SPACE

WRITERS WHO CAN'T TYPE, DON'T DISPAIR: YOU WRITE, WE'LL TYPE

RARS News readers who have the urge to write but not the skill to type can share their thoughts and expertise with club members through this news letter.

Legibile handwritten manuscripts will be typed into proper format for the news letter. Writers will be given bylines.

A typist will be hired to prepare handwritten copy for printing. Of course, that means extra cost to the club.

So if you type, or you have a wife who types, please send camera-ready copy.

If you send handwritten copy, please be sure it is readable. We can't print it if we can't read it.

RARS NEWS OFFICIAL REPOSITORY OF CLUB MINUTES

This issue contains minutes of three club meetings.

Minutes are official records of meetings. They are published in the news letter so all members have equal access to them.

The news letter is the official repository of club minutes. All are published in issues following meetings.

Raleigh Amateur Radio Society, Inc.

APPLICATION FOR MEMBERSHIP

To help you enjoy RARS activities and to assist the club officers and directors in making plans, please complete this application in its entirety.

I. Name _____ Spouse's Name _____

Street _____ Your date of birth _____

City & State _____ Zip _____

Telephone Number: Home _____ Work _____

Your Employer _____ Occupation _____

II. Call _____ Class of License _____ Date First Licensed _____

ARRL Member: ☐ Yes (☐ Life ☐ Regular) ☐ No CVRA Member: ☐ Yes ☐ No

Other Hobbies: _____

Member of Other Clubs/Organizations: _____

_____

Ham magazines you read: ☐ QST ☐ Ham Radio ☐ 73 ☐ CQ ☐ World Radio News ☐ HR Report

☐ Other: _____

III. Areas Of Interest With Percent (%) of Hamming Time Spent (100%):

☐ CW	☐ Nets	☐ HF Construction	☐ Traffic Handling
☐ SSB	☐ VHF Operation	☐ General Activities	☐ Community Service
☐ Teletype	☐ VHF Construction	☐ Satellites	☐ Other _____
☐ SSTV	☐ HF Operation	☐ DX-ing	_____

IV. Do you own and/or have ready access to:

☐ Emergency Power Generator ☐ HF Portable Rig ☐ VHF Portable Rig ☐ VHF Handheld Xcvr

☐ Do You Operate: ☐ HF Mobile - Bands _____ ☐ VHF Mobile - Bands _____

☐ Bands You Operate Regularly: ☐ 160 ☐ 80/75 ☐ 40 ☐ 20 ☐ 15 ☐ 10 ☐ 6 ☐ 2 ☐ 1.25

V. Do You Need Assistance With:

☐ Learning Code	☐ Upgrading A license	☐ Traffic & Net Operations
☐ Improving Code Speed	☐ Rig Problems	☐ Transportation
☐ Obtaining A License	☐ Antenna Problems	☐ ARRL Membership
☐ _____	☐ TVI/RFI Problems	☐ _____

_____

Since All RARS Members Are Expected To Assist In Society Projects and Activities, Please Indicate The Areas You Will Help With:

☐ Annual Hamfest	☐ Licensing Classes	☐ ARRL Info/Activities	☐ Ham Radio Publicity
☐ Field Day	☐ Contests/Awards	☐ RARS Repeater	☐ Emergency Communications
☐ Community Service	☐ Construction Projects	☐ RARS Meetings	☐ Other _____
☐ RARS Newsletter	☐ Budget/Financial	☐ RARS Nets	☐ _____
☐ Newsletter Advertising	☐ RARS Social Events	☐ Telephone Committee	_____

Your Comments: _____

_____

_____

DUES ARE TO BE PAID WHEN APPLICATION IS ACCEPTED!

Date _____ Signature _____

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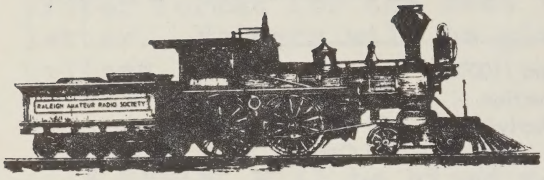

RARS

RARS meets each first Wednesday at 7:30 p.m. in the West Community Room of Crabtree Valley Mall.

RARS TWO METER FM NET — Meets 8:00 p.m. every night
146.04/146.64 Repeater
RARS 10 METER SSB NET — Monday, Tuesday, Thursday, Friday Nights
7:00 p.m. — 28.540 MHz